

SEQUENCE LISTING

JC20 Rec'd PCT/PTO 17 JUN 2005

<110> Agrinomics LLC

<120> GENERATION OF PLANTS WITH ALTERED OIL CONTENT

<130> AG03-083C-PC

<150> 60/434,601

<151> 2002-12-18

<160> 2

<170> PatentIn version 3.2

<210> 1

<211> 3214

<212> DNA

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 35 40 45

Ser Ala Ile Arg Asn Cys Asp Glu Phe Gln Val Lys Ser Lys Asp Val
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Glu Lys Ile Leu Asp Trp Glu Asn Thr Ser Pro Lys Gln Val Glu Ile
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Pro Phe Lys Pro Ala Arg Val Leu Leu Gln Asp Phe Thr Gly Val Pro
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Ala Val Val Asp Leu Ala Cys Met Arg Asp Ala Met Asn Asn Leu Gly
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Gly Asp Ser Asn Lys Ile Asn Pro Leu Val Pro Val Asp Leu Val Ile
 115 120 125

Asp His Ser Val Gln Val Asp Val Ala Arg Ser Glu Asn Ala Val Gln
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Ala Asn Met Glu Leu Glu Phe Gln Arg Asn Lys Glu Arg Phe Ala Phe
 145 150 155 160

Leu Lys Trp Gly Ser Asn Ala Phe His Asn Met Leu Val Val Pro Pro
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Gly Ser Gly Ile Val His Gln Val Asn Leu Glu Tyr Leu Ala Arg Val
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Val Phe Asn Thr Asn Gly Leu Leu Tyr Pro Asp Ser Val Val Gly Thr

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| Val Gly Gly Ile Glu Ala Glu Ala Thr Met Leu Gly Gln Pro Met Ser | | |
| 225 | 230 | 235 |
| Met Val Leu Pro Gly Val Val Gly Phe Lys Leu Thr Gly Lys Leu Arg | | |
| 245 | 250 | 255 |
| Asp Gly Met Thr Ala Thr Asp Leu Val Leu Thr Val Thr Gln Met Leu | | |
| 260 | 265 | 270 |
| Arg Lys His Gly Val Val Gly Lys Phe Val Glu Phe His Gly Glu Gly | | |
| 275 | 280 | 285 |
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| 290 | 295 | 300 |
| Pro Glu Tyr Gly Ala Thr Met Gly Phe Phe Pro Val Asp His Val Thr | | |
| 305 | 310 | 315 |
| Leu Gln Tyr Leu Arg Leu Thr Gly Arg Ser Asp Asp Thr Val Ser Met | | |
| 325 | 330 | 335 |
| Ile Glu Ala Tyr Leu Arg Ala Asn Lys Met Phe Val Asp Tyr Ser Glu | | |
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| Pro Glu Ser Lys Thr Val Tyr Ser Ser Cys Leu Glu Leu Asn Leu Glu | | |
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| 370 | 375 | 380 |
| Pro Leu Lys Glu Met Lys Ala Asp Trp His Ser Cys Leu Asp Asn Arg | | |
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| Val Gly Phe Lys Gly Phe Ala Val Pro Lys Glu Ala Gln Ser Lys Ala | | |
| 405 | 410 | 415 |
| Val Glu Phe Asn Phe Asn Gly Thr Thr Ala Gln Leu Arg His Gly Asp | | |
| 420 | 425 | 430 |
| Val Val Ile Ala Ala Ile Thr Ser Cys Thr Asn Thr Ser Asn Pro Ser | | |
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Leu Glu Val Lys Pro Trp Ile Lys Thr Ser Leu Ala Pro Gly Ser Gly
 465 470 475 480

Val Val Thr Lys Tyr Leu Ala Lys Ser Gly Leu Gln Lys Tyr Leu Asn
 485 490 495

Gln Leu Gly Phe Ser Ile Val Gly Tyr Gly Cys Thr Thr Cys Ile Gly
 500 505 510

Asn Ser Gly Asp Ile His Glu Ala Val Ala Ser Ala Ile Val Asp Asn
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Asp Leu Val Ala Ser Ala Val Leu Ser Gly Asn Arg Asn Phe Glu Gly
 530 535 540

Arg Val His Pro Leu Thr Arg Ala Asn Tyr Leu Ala Ser Pro Pro Leu
 545 550 555 560

Val Val Ala Tyr Ala Leu Ala Gly Thr Val Asp Ile Asp Phe Glu Thr
 565 570 575

Gln Pro Ile Gly Thr Gly Lys Asp Gly Lys Gln Ile Phe Phe Arg Asp
 580 585 590

Ile Trp Pro Ser Asn Lys Glu Val Ala Glu Val Val Gln Ser Ser Val
 595 600 605

Leu Pro Asp Met Phe Lys Ala Thr Tyr Glu Ala Ile Thr Lys Gly Asn
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Ser Met Trp Asn Gln Leu Ser Val Ala Ser Gly Thr Leu Tyr Glu Trp
 625 630 635 640

Asp Pro Lys Ser Thr Tyr Ile His Glu Pro Pro Tyr Phe Lys Gly Met
 645 650 655

Thr Met Ser Pro Pro Gly Pro His Gly Val Lys Asp Ala Tyr Cys Leu
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Leu Asn Phe Gly Asp Ser Ile Thr Thr Asp His Ile Ser Pro Ala Gly
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Ser Ile His Lys Asp Ser Pro Ala Ala Lys Tyr Leu Met Glu Arg Gly

| | | | | |
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| | | 725 | | 730 735 |
| His Leu Lys Gly Glu Val Gly Pro Lys Thr Val His Ile Pro Thr Gly | | | | |
| | | 740 | | 745 750 |
| Glu Lys Leu Ser Val Phe Asp Ala Ala Met Lys Tyr Arg Asn Glu Gly | | | | |
| | | 755 | | 760 765 |
| Arg Asp Thr Ile Ile Leu Ala Gly Ala Glu Tyr Gly Ser Gly Ser Ser | | | | |
| | | 770 | | 775 780 |
| Arg Asp Trp Ala Ala Lys Gly Pro Met Leu Leu Gly Val Lys Ala Val | | | | |
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| Ile Ser Lys Ser Phe Glu Arg Ile His Arg Ser Asn Leu Val Gly Met | | | | |
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| Gly Leu Thr Gly Gln Glu Leu Tyr Thr Ile Glu Leu Pro Asn Asn Val | | | | |
| | | 835 | | 840 845 |
| Ser Glu Ile Lys Pro Gly Gln Asp Val Thr Val Val Thr Asn Asn Gly | | | | |
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| Lys Ser Phe Thr Cys Thr Leu Arg Phe Asp Thr Glu Val Glu Leu Ala | | | | |
| | | 865 | | 870 875 880 |
| Tyr Phe Asp His Gly Gly Ile Leu Gln Tyr Val Ile Arg Asn Leu Ile | | | | |
| | | 885 | | 890 895 |
| Lys Gln | | | | |